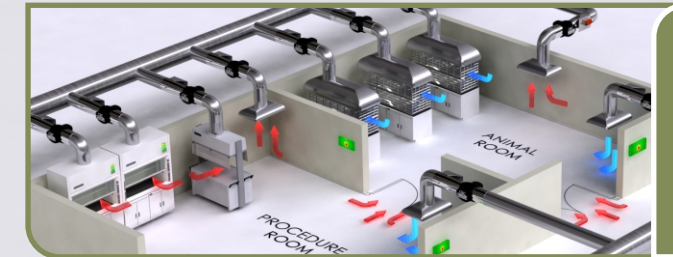


CRITICAL ROOM CONTROL SOLUTIONS / PRODUCT OVERVIEW

OCTOBER 2012

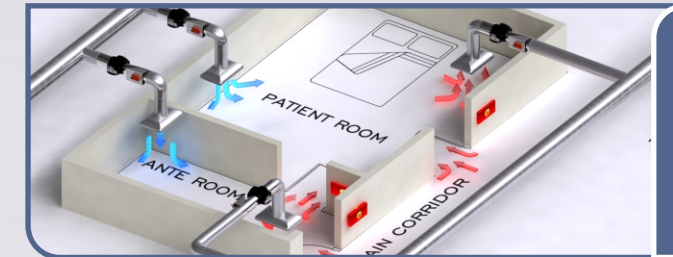


LAB SOLUTIONS



LAB SOLUTIONS

HEALTHCARE SOLUTIONS

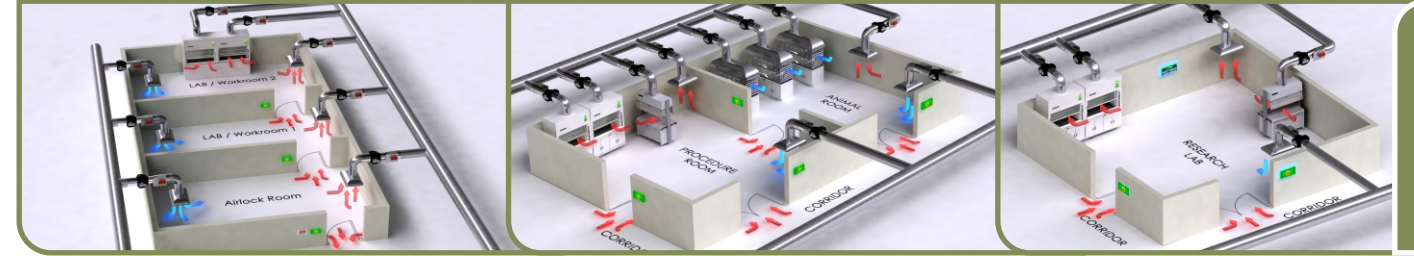


HEALTHCARE SOLUTIONS



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LAB SOLUTIONS



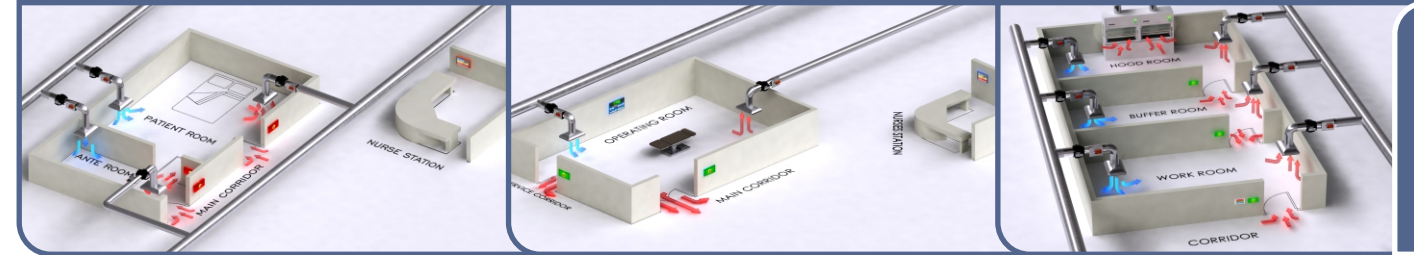
CASCDED LABS / BSL

VIVARIUMS

RESEARCH

LAB SOLUTIONS

HEALTHCARE SOLUTIONS



ISOLATION ROOMS

OPERATING ROOMS

PHARMACIES

HEALTHCARE SOLUTIONS

CASCADED LABS / BIO-CONTAINMENT LABS (BSL)

Environments such as wet chemistry and biological research labs require a high performance ventilation system to ensure safe, stable, and reliable working conditions. With a true closed loop control strategy, CRC systems continually verify that safe operating conditions are being met. Superior lab control, coupled with CRC's intuitive touch screen interface device, not only alerts occupants of potential dangerous conditions, but also allows local changes to environmental conditions. Bio-containment facility solutions are designed to deliver safe, consistent, and stable environments where performance is vital. Proper ventilation and a reliable working environment are paramount for both safety and quality research results.

- Fast, accurate, quiet and reliable room ventilation, temperature, humidity and pressure control
- Stable cascaded lab pressure relationships
- Captures and contains fumes ensuring occupant safety
- Energy efficient control sequences
- Safe closed loop control with true variable feedback
- Local access to critical information at the touch of a finger
- Fully automated room sequencing and safety procedures
- Simple to navigate safety indication and alarming
- Long term reliable control with no scheduled maintenance
- Five unique modes developed specifically for lab space

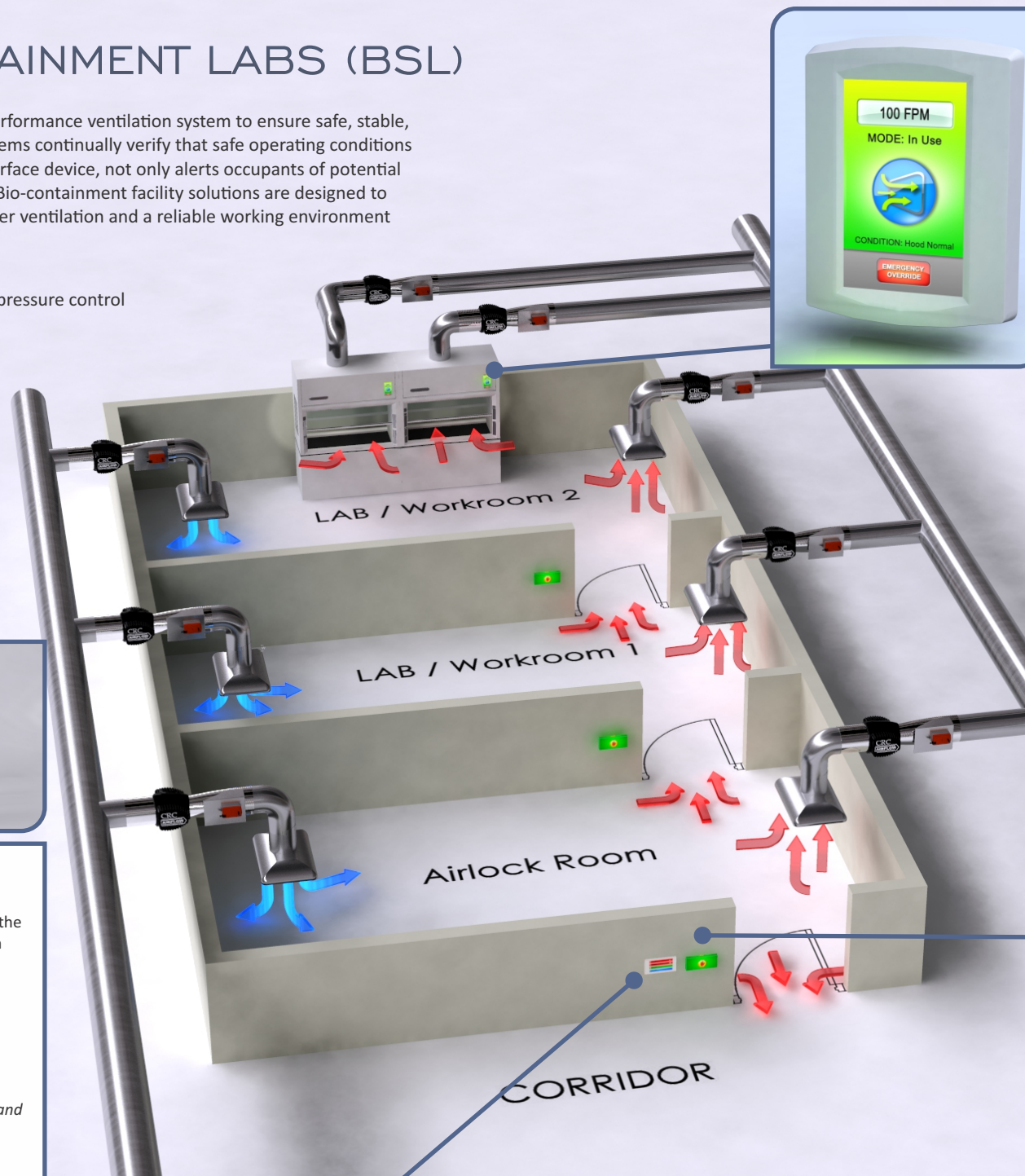


CLOSED LOOP VALVES:

CRC-CLV

In order to ensure that safe operating conditions are being met, it is critical to measure the output that is being controlled. Our unique closed loop venturi valve provides long term reliability, unmatched accuracy, and true airflow measurement.

- Closed loop control
- True industrial grade air flow measurement
- Industry's lowest energy requirements
- Impervious to lint, dirt and dust
- No minimum static pressure requirements
- Confirmation of desired set point
- Fast acting and failsafe
- No scheduled maintenance
- Accurate to $\pm 5\%$ of flow
- Ultra low pressure drop
- No required straight duct runs
- 10 to 1 turndown
- Aluminum, steel, stainless steel, and coated construction
- Mount in any orientation



Fume Hood Monitor / Controller:

CRC-FPM / CRC - FPC

The Fume Hood Controller (CRC-FHC) is designed to monitor and control a single fume hood where proper flow is vital.

- Monitor and control fume hood face velocity or volume
- Fast, accurate, stable and reliable control of fume hood face velocity
- Full color touch screen clearly indicates fume hood condition and alarms
- Supports constant volume or variable volume hoods
- Supports direct sidewall, vertical sash, horizontal sash and combination sash sensing
- Closed loop control strategy with true variable feedback
- Energy saving sequencing and control logic
- Can operate as a standalone controller or part of a CRC complete lab solution
- Supports Imperial and Metric readouts
- Seamless integration with CRC lab control system or BMS
- Onboard BACnet MS/TP Communications

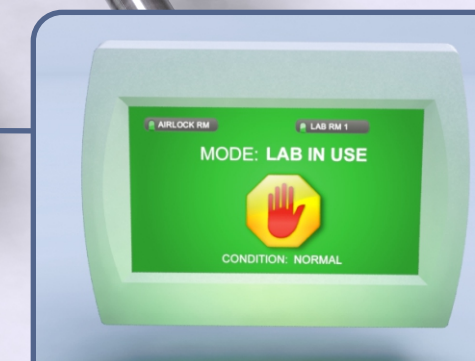


Lab Pressure Monitor / Controller:

CRC-LPM / CRC-LPC

The bright, colorful, easy to read LCD touch screen can monitor and control the pressure relationship of up to two rooms while giving clear indication of the room's current status and current pressure readings.

- Monitor / control up to two rooms with one controller
- 5 fully customizable modes
- Automated room sequencing and changeover
- Dual password protection
- Displays current value, alarm, and set point adjustment of up to 8 points
- Best in class industrial grade dead ended direct pressure measurement
- Onboard BACnet MS/TP Communications
- I/O and Network diagnostic functions



Multiple Room Monitor:

CRC-MRM

Critical Room Control's Multiple Room Monitor is an advanced compact display module that continuously monitors the occupancy and alarm status of up to four (4) individual rooms via hardwire or network connection. The CRC-MRM also allows the remote monitoring of five additional environmental points per room (20 points total).

- Monitors up to 4 rooms
- Displays and alarms up to five environmental points for each lab space (20 total)
- Seamless integration with the CRC system and BAS
- Clearly indicates any hazardous conditions within suite of lab spaces before entering suite
- In addition to the five (5) data elements (points), each room has an independent overall status with audible and visual alarm

VIVARIUMS / ANIMAL HOLDING ROOMS

Animal room solutions are designed to deliver a consistent, stable, and safe environment for research animals. Maintaining a proper living environment is critical to quality scientific research. Successful research and testing can be directly linked to accurate ventilation and climate control within the testing population. Critical Room Control provides **complete turnkey systems that define best practices** and include intuitive user interfaces that clearly indicate current status while automating proper space use.

Critical Room Control's Vivarium systems offer:

- Fast, accurate, quiet, and reliable room temperature, humidity and pressure control
- Local access for research staff of critical information at the touch of a finger
- Fully automated room sequencing
- Simple to navigate safety indication and alarming
- Safe closed loop control with true variable feedback
- Energy efficient control sequences
- Long term reliable control with no scheduled maintenance
- Improved user experience with clear intuitive user interfaces
- Single source responsibility for critical improved research outcomes



CLOSED LOOP VALVES:

CRC-CLV

In order to ensure that safe operating conditions are being met, it is critical to measure the output that is being controlled. Our unique closed loop venturi valve provides long term reliability, unmatched accuracy, and true airflow measurement.

- Closed loop control
- True industrial grade air flow measurement
- Industry lowest energy requirements
- Impervious to lint, dirt, dust, animal hair and dander
- Ultra low pressure drop
- Confirmation of desired set point
- Fast acting and failsafe
- No scheduled maintenance
- Accurate to $\pm 5\%$ of flow
- No minimum static pressure requirements
- No required straight duct runs
- 10 to 1 turndown
- Aluminum, steel, stainless steel, and coated construction
- Mount in any orientation

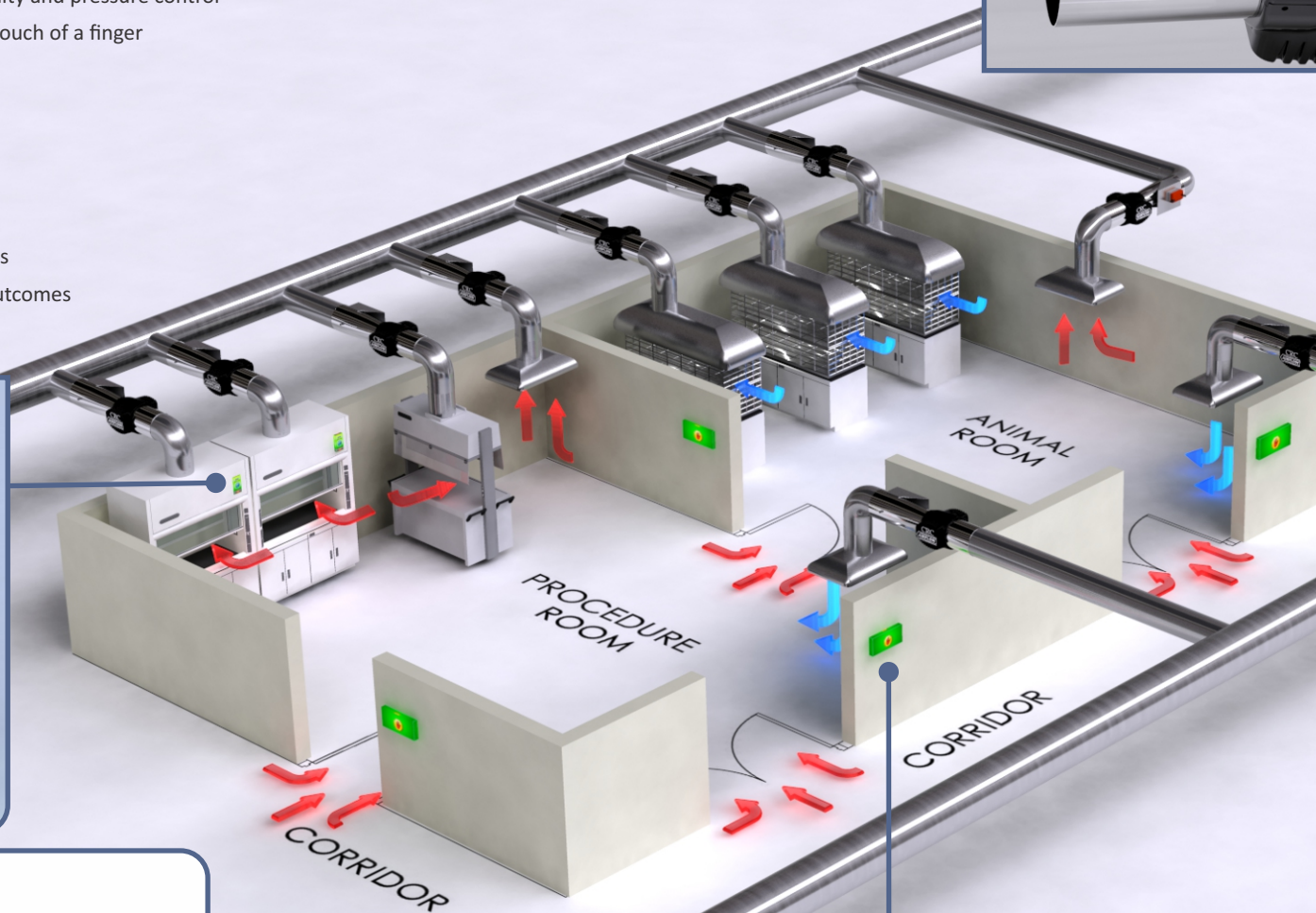


Fume Hood Monitor / Controller:

CRC-FPM / CRC-FPC

The Fume Hood Controller (CRC-FHC) is designed to monitor and control a single fume hood where proper flow is vital.

- Monitor and control fume hood face velocity or volume
- Fast, accurate, stable and reliable control of fume hood face velocity
- Full color touch screen clearly indicates fume hood condition and alarms
- Supports constant volume or variable volume hoods
- Supports direct sidewall, vertical sash, horizontal sash and combination sash sensing
- Closed loop control strategy with true variable feedback
- Energy saving sequencing and control logic
- Can operate as a standalone controller or part of a CRC complete lab solution
- Supports Imperial and Metric readouts
- Seamless integration with CRC lab control system or BMS
- Onboard BACnet MS/TP Communications



Lab Pressure Monitor / Controller:

CRC-LPM / CRC-LPC

The bright, colorful, easy to read LCD touch screen can monitor and control the pressure relationship of up to two rooms while giving clear indication of the room's current status and pressure readings.

- Monitor / control up to two rooms with one controller
- 5 fully customizable modes
- Automated room sequencing and changeover
- Best in class industrial grade dead ended direct pressure measurement
- Dual password protection
- Displays current value, alarm, and set point adjustment of up to 8 points
- Onboard BACnet MS/TP Communications
- I/O and Network diagnostic functions

RESEARCH / LABORATORIES

Research facilities must offer users a reliable, efficient, and flexible environment that ensures research integrity. Just like the research work being performed inside the laboratory space the CRC closed loop control strategy verifies actual operating conditions are being met. Our full color LCD touchscreen devices allow researchers quick and easy access to critical environmental information important to their research with a touch of a finger.

Open lab solutions are designed to deliver a consistent and stable environment for performing research. Proper ventilation and a consistent working environment is paramount for both safety and quality research results. Critical Room Control provides **complete turnkey systems that define best practices** and include intuitive user interfaces that clearly indicate current status while automating proper space use.

- Fast, accurate, quiet and reliable room temperature, humidity and pressure control
- Local access for research staff of critical information at the touch of a finger
- Fully automated room sequencing
- Simple to navigate safety indication and alarming
- Safe closed loop control with true variable feedback
- Energy efficient control sequences
- Space management and room turnover automation
- Improved user experience with clear intuitive user interfaces



MultiVIEW Monitor: CRC-MV

The MultiVIEW is an advanced 7" LCD touchscreen display that is designed to be configured for any monitoring or sequencing application. It's core function is to give local access to critical information in an easy to read display. It supports up to six (6) fully configurable graphical icons - allowing the facility user to view and/or make changes to point values, modes, status, set points, and alarms.

- Bright/sunlight readable 7.0" LCD touch screen
- Displays large, easy to read values, set points, room status, modes and alarms
- Supports local and remote audible and visual alarms
- Analog and digital input and outputs for point values, modes or status indicator
- Network for values, modes or status points
- Set point, status and mode networked or hardwired

CLOSED LOOP VALVES: CRC-CLV

In order to ensure that safe operating conditions are being met, it is critical to measure the output that is being controlled. Our unique closed loop venturi valve provides long term reliability, unmatched accuracy, and true airflow measurement.

- Closed loop control
- True industrial grade air flow measurement
- Industry's lowest energy requirements
- Impervious to lint, dirt and dust
- No minimum static pressure requirements
- Confirmation of desired set point
- Aluminum, steel, stainless steel, and coated construction
- No scheduled maintenance
- Accurate to ±5% of flow
- Ultra low pressure drop
- No required straight duct runs
- 10 to 1 turndown
- Fast acting and failsafe
- Mount in any orientation



Fume Hood Monitor / Controller: CRC-FPM / CRC-FPC

The Fume Hood Controller (CRC-FHC) is designed to monitor and control a single fume hood where proper flow is vital.

- Monitor and control fume hood face velocity or volume
- Fast, accurate, stable and reliable control of fume hood face velocity
- Full color touch screen clearly indicates fume hood condition and alarms
- Supports constant volume or variable volume hoods
- Supports direct sidewall, vertical, horizontal, and combination sash sensing
- Closed loop control strategy with true variable feedback
- Energy saving sequencing and control logic
- Can operate as a standalone controller or part of a CRC complete lab solution
- Supports Imperial and Metric readouts
- Seamless integration with CRC lab control system or BMS
- Onboard BACnet MS/TP Communications



Lab Pressure Monitor / Controller: CRC-LPM / CRC-LPC

The bright, colorful, easy to read LCD touch screen can monitor and control the pressure relationship of up to two rooms while giving clear indication of the room's current status and pressure readings.

- Monitor / control up to two rooms with one controller
- 5 fully customizable modes
- Dual password protection
- Displays current value, alarm, and set point adjustment of up to 8 points
- Best in class industrial grade dead ended direct pressure measurement
- Onboard BACnet MS/TP Communications
- I/O and Network diagnostic functions



ISOLATION ROOMS

Critical Room Control's innovative approach to designing isolation room solutions combines best in practice environmental control and efficient space management. CRC's unique interface and intuitive design allows staff to spend more time on patient care and less on room management. CRC's unique automated room changeover and sequencing with unequalled clear indication of room conditions dramatically reduces hospital liability. As the industry's leading innovator CRC is committed to providing hospitals with a safer and more efficient work environment.

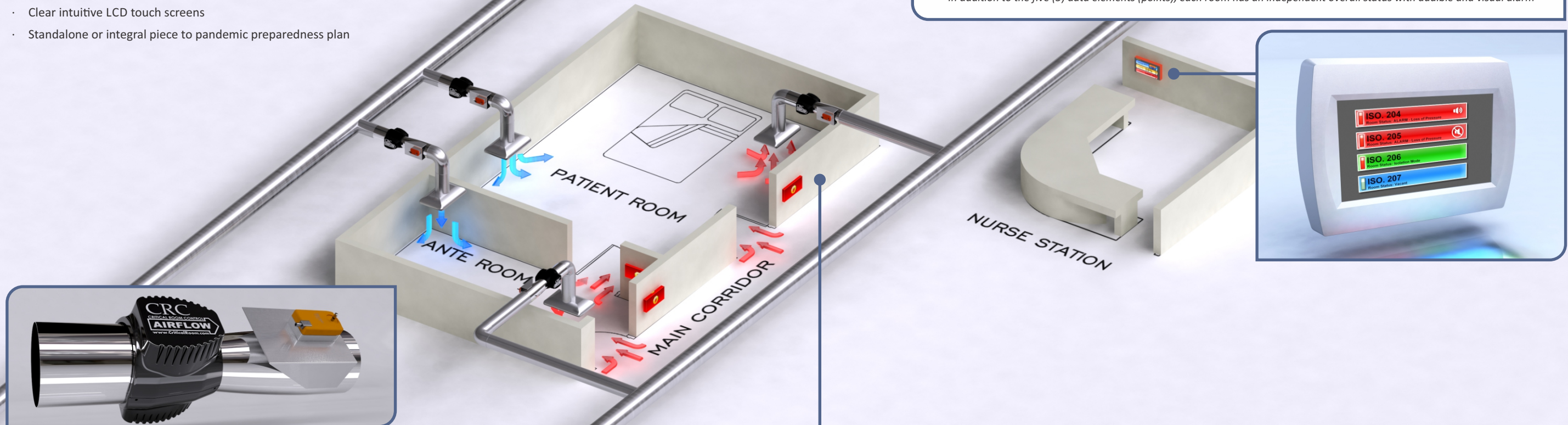
Our systems deliver:

- Fast, accurate, and reliable room pressure, temperature, and humidity control
- Reduced liability with fully automated room changeover
- Closed loop control with true variable feedback
- Industry's lowest air valve pressure drop
- Energy efficient control sequences
- Clear intuitive LCD touch screens
- Standalone or integral piece to pandemic preparedness plan

Multiple Room Monitor: CRC-MRM

Critical Room Control's Multiple Room Monitor is an advance compact display module that continuously monitors the occupancy and alarm status of up to four (4) individual rooms via hardwire or network connection. The CRC-MRM also allows the remote monitoring of five additional environmental points per room (20 points total) via on board network connectivity.

- Bright / sunlight readable 5.7" LCD touch screen
- Designed to integrate seamlessly with CRC-RPM/C and BAS
- Device can be configured to monitor up to 4 rooms
- Display and alarm up to 5 user selectable data elements (points) for each of the four (4) rooms
- Resistive touch control - Use bare finger, gloved finger, or stylus to interact with LCD screen
- Clear / unambiguous display of rooms overall status and points
- Local alarm acknowledge (silence)
- In addition to the five (5) data elements (points), each room has an independent overall status with audible and visual alarm



CLOSED LOOP VALVES: CRC-CLV

In order to ensure that safe operating conditions are being met, it is critical to measure the output that is being controlled. Our unique closed loop venturi valve provides long term reliability, unmatched accuracy, and true airflow measurement.

- Closed loop control
- True air flow measurement
- Industry's lowest energy requirements
- Impervious to lint, dirt and dust
- Ultra low pressure drop
- Confirmation of desired set point
- Fast acting and failsafe
- No scheduled maintenance
- Accurate to $\pm 5\%$ of flow
- No minimum static pressure requirements
- No required straight duct runs
- 10 to 1 turndown
- Aluminum, steel, stainless steel, and coated construction
- Mount in any orientation

Room Pressure Monitor / Controller: CRC-RPM / CRC-RPC

The bright, colorful, easy to read LCD touch screen can monitor and control the pressure relationship of up to two rooms while giving clear indication of the room's current status, precaution information, and current pressure readings.

Some of the features that make CRC's Room Pressure Controller the industry leader include:

- Monitor / control up to two rooms with one controller
- 5 fully customizable modes
- Automated room changeover
- Shows precaution information (Airborne, Droplet, Contact, Standard, None)
- Automated room clearing timer
- Best in class industrial grade dead ended direct pressure measurement
- Displays current value, alarm, and set point adjustment of up to 8 points
- Automated room clearing timer
- Onboard BACnet MS/TP Communications
- I/O and Network diagnostic functions

OPERATING ROOMS / SURGICAL SUITES

A facility's infection control systems must ensure the safety of patients, staff and visitors. Space control systems must be designed to continually monitor and clearly display current conditions and alarms. Critical Room Control provides **complete turnkey systems that define best practices** and include intuitive user interfaces that clearly indicate current status while automating proper space use.

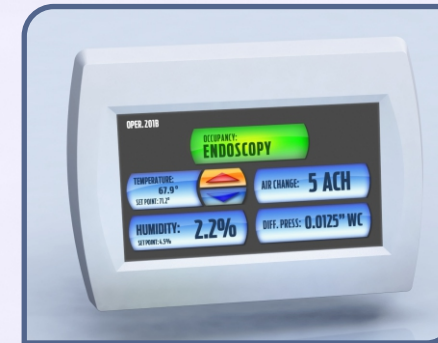
Surgical Suite solutions from Critical Room Control offer complete energy efficient environmental control

- Fast, accurate, and reliable room pressure, temperature, and humidity control
- Reduced liability with fully automated room changeover
- Closed loop control with true variable feedback
- Industry's lowest air valve pressure drop
- Energy efficient control sequences
- Clear intuitive LCD touch screens

CLOSED LOOP VALVES: CRC-CLV

In order to ensure that safe operating conditions are being met, it is critical to measure the output that is being controlled. Our unique closed loop venturi valve provides long term reliability, unmatched accuracy, and true airflow measurement.

- Closed loop control
- True air flow measurement
- Industry lowest energy requirements
- Impervious to lint, dirt and dust
- Low pressure drop
- Confirmation of desired set point
- Fast acting and failsafe
- No scheduled maintenance
- Accurate to $\pm 5\%$ of flow
- No minimum static pressure requirements
- No required straight duct runs
- 10 to 1 turndown
- Aluminum, steel, stainless, and coated valve construction
- Mount in any orientation



MultiVIEW Monitor: CRC-MV

The MultiVIEW is an advanced 7" LCD touchscreen display that is designed to be configured for any monitoring or sequencing application. It's core function is to give local access to critical information in an easy to read display. It supports up to six (6) fully configurable graphical icons - allowing the facility user to view and/or make changes to point values, modes, status, set points, and alarms.

- Bright/sunlight readable 7.0" LCD touch screen
- Displays large, easy to read values, set points, room status, modes and alarms
- Supports local and remote audible and visual alarms
- Analog and digital input and outputs for point values, modes or status indicator
- Network for values, modes or status points
- Set point, status and mode networked or hardwired

Room Pressure Monitor / Controller: CRC-RPM / CRC - RPC

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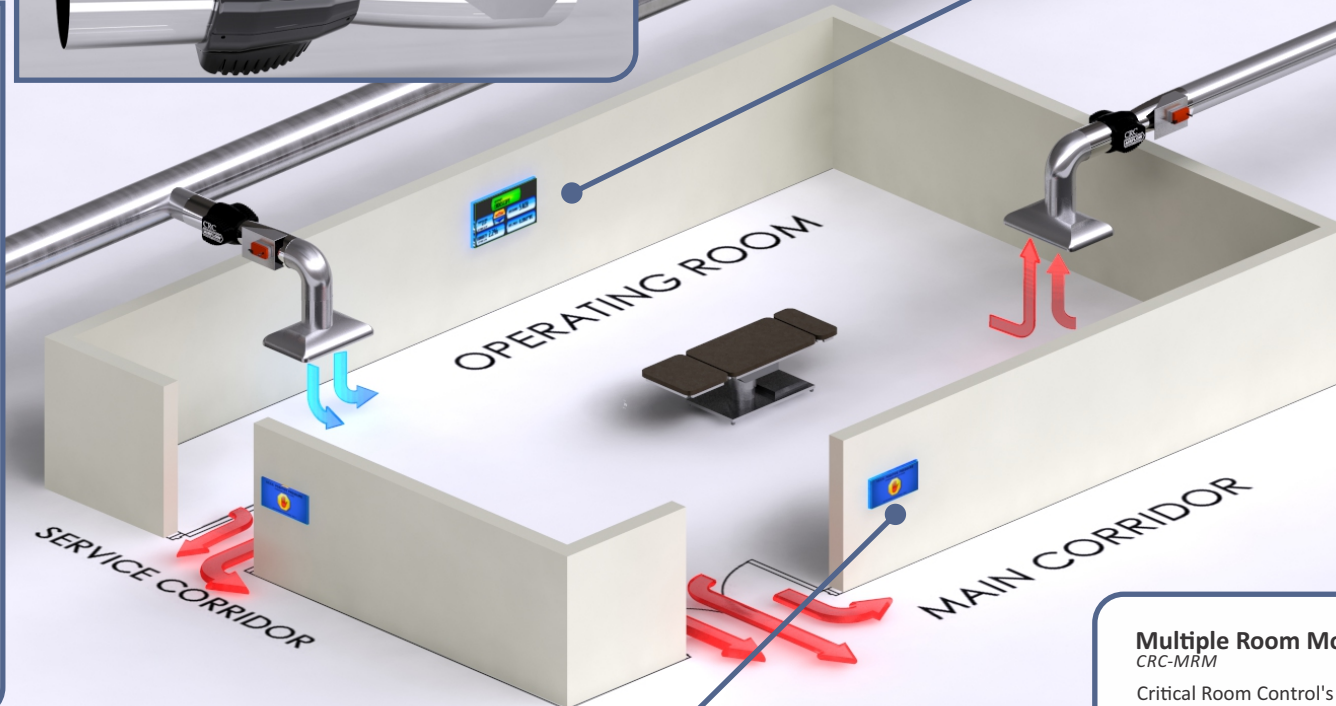
- Monitor / control up to two rooms with one controller
- Best in class industrial grade dead ended direct pressure measurement
- 5 fully customizable modes
- Automated room changeover
- Shows precaution information (Airborne, Droplet, Contact, Standard, None)
- Displays current value, alarm, and set point adjustment of up to 8 points
- Automated room clearing timer
- Onboard BACnet MS/TP Communications
- I/O and Network diagnostic functions
- Dual password protection



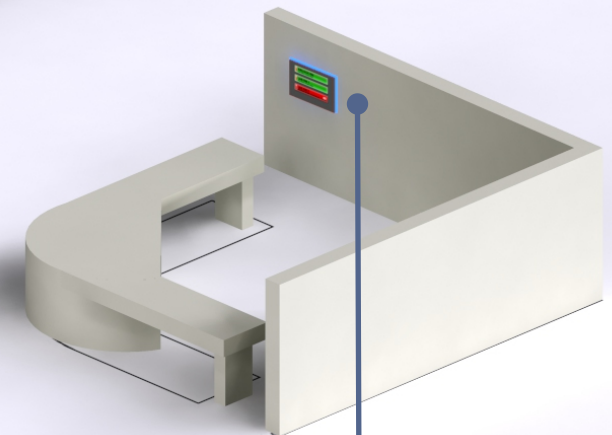
Multiple Room Monitor: CRC-MRM

Critical Room Control's Multiple Room Monitor is an advanced compact display module that continuously monitors the occupancy and alarm status of up to four (4) individual rooms via hardwire or network connection. The CRC-MRM also allows the remote monitoring of five additional environmental points per room (20 points total) via on board network connectivity

- Bright / sunlight readable 4" or 5.7" LCD touch screen
- Designed to integrate seamlessly with the CRC-RPM/C or BAS
- Device can be configured to monitor up to 4 rooms
- Display and alarm up to 5 user selectable data elements (points) for each of the four (4) rooms
- Resistive touch control - Use bare finger, gloved finger, or stylus to interact with LCD screen
- Clear / unambiguous display of rooms overall status and points
- Local alarm acknowledge (silence)
- In addition to the five (5) data elements (points), each room has an independent overall status with audible and visual alarm



NURSES STATION



PHARMACIES / ONCOLOGY

Pharmacy/Oncology solutions are designed to meet the **US Pharmacopeia Chapter 797** requirements. CRC delivers a complete system ensuring that sterile compounding areas maintain ventilation rates and proper pressure relationships. Critical Room Control provides **complete turnkey systems that define best practices** and include intuitive user interfaces that clearly indicate current status while automating proper space use.

Pharmacy/Oncology solutions from Critical Room Control offer complete energy efficient environmental control

- Fast, accurate, and reliable room pressure, temperature, and humidity control
- Reduced liability with fully automated room changeover
- Closed loop control with true variable feedback
- Industries lowest air valve pressure drop
- Energy efficient control sequences
- Clear intuitive LCD touch screens



CLOSED LOOP VALVES: CRC-CLV

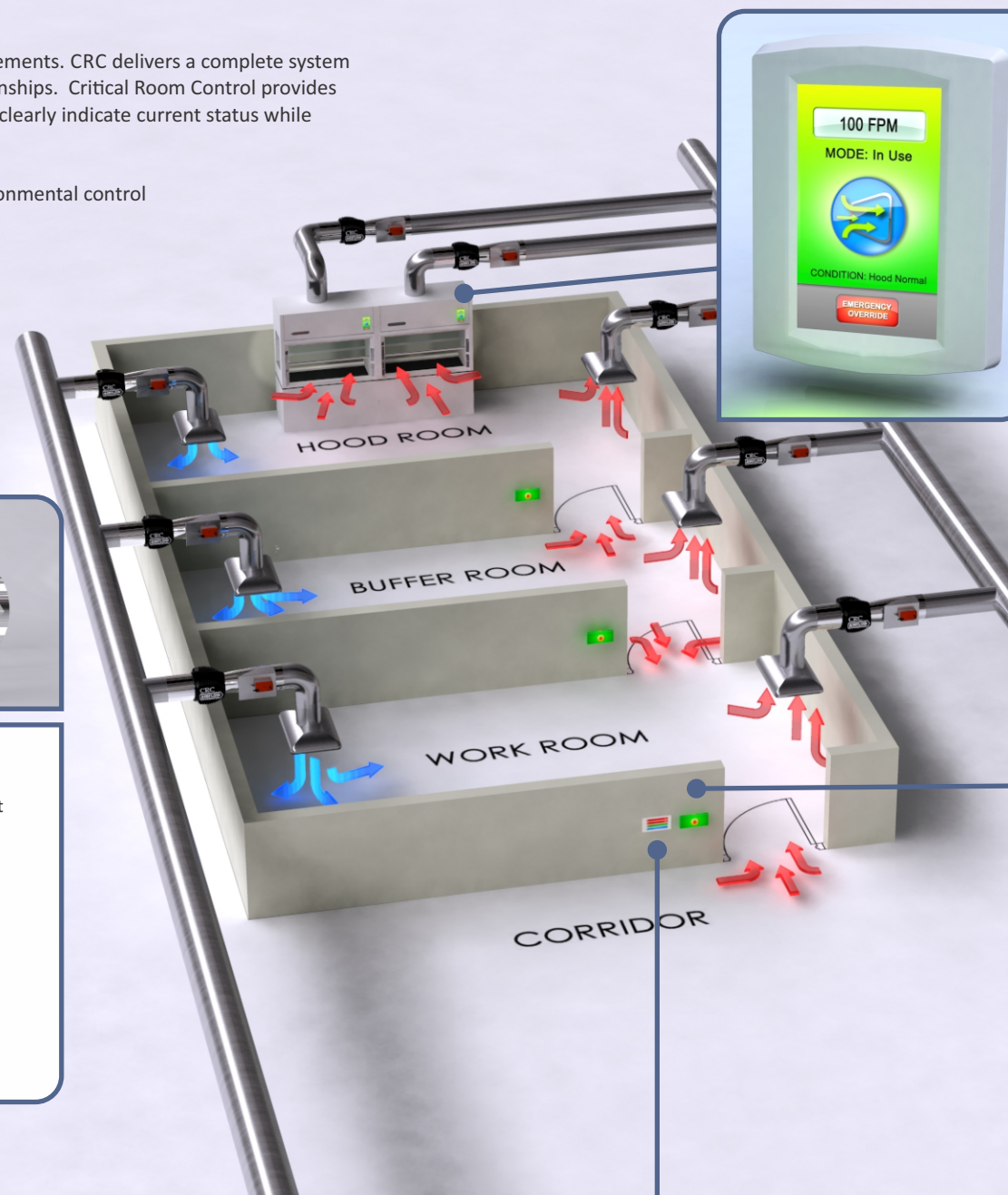
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Multiple Room Monitor: CRC-MRM

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- Monitors up to 4 rooms
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- Seamless integration with the CRC system and BAS
- Clearly indicates any hazardous conditions within suite of lab spaces before entering suite
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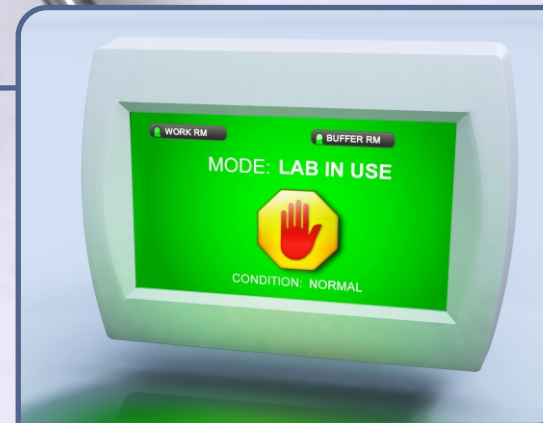
Fume Hood Monitor / Controller:

CRC-FPM / CRC - FPC

The Fume Hood Controller (CRC-FHC) is designed to monitor and control a single fume hood where proper flow is vital.

Some of the features that make CRC's FHM the industry leader include:

- Monitor and control fume hood face velocity or volume
- Fast, accurate, stable and reliable control of fume hood face velocity
- Full color touch screen clearly indicates fume hood condition and alarms
- Supports constant volume or variable volume hoods
- Supports direct sidewall, vertical, horizontal, and combination sash sensing
- Closed loop control strategy with true variable feedback
- Energy saving sequencing and control logic
- Can operate as a standalone controller or part of a CRC complete lab solution
- Supports Imperial and Metric readouts
- Seamless integration with CRC lab control system or BMS
- Onboard BACnet MS/TP Communications



Lab Pressure Monitor / Controller:

CRC-LPM / CRC - LPC

The bright, colorful, easy to read LCD touch screen can monitor and control the pressure relationship of up to two rooms while giving clear indication of the room's current status and pressure readings.

- Monitor / control up to two rooms with one controller
- 5 fully customizable modes
- Best in class industrial grade dead ended direct pressure measurement
- Displays current value, alarm, and set point adjustment of up to 8 points
- Onboard BACnet MS/TP Communications

